

IN THE CLAIMS:

Claims 4, 5, 19, 27, 28, 51 – 62, 82, and 83 have been cancelled. Claims 1, 12, 13, 16, 17, 22, 25, 37, 63, 65, 70, 72, 77 – 79, 84, 115, and 121 have been amended, as follows:

1. (currently amended) A wireless network system, comprising:
a server system connected to a network;
an electronic device having a wireless transceiver adapted to communicate via at least one of light transmission and radio frequency (RF) transmission; and
a portable wireless device having a wireless connection to the network, wherein the portable wireless device ~~is adapted to communicate~~ communicates wirelessly with the electronic device through the wireless transceiver of the electronic device, and ~~the electronic device communicates with the server system over the network~~ communication from the electronic device to the server system goes through the portable wireless device.
2. (original) The wireless network system according to claim 1, wherein communication between the electronic device and the server system is secured from the portable wireless device.
3. (original) The wireless network system according to claim 1, wherein the wireless connection is selected from the group consisting of a Transmission Control Protocol/Internet Protocol (TCP/IP) connection, a satellite connection, a Global System for Mobile communications (GSM) connection, a code-division multiple access (CDMA) connection, a time-division multiple access (TDMA) connection, a Cellular Digital

Packet Data (CDPD) connection, a General Packet Radio Service (GPRS) connection, and a wideband code-division multiple access (WCDMA) connection.

Claims 4 and 5 (cancelled).

6. (original) The wireless network system according to claim 1, wherein the electronic device lacks a permanent connection to the network.

7. (original) The wireless network system according to claim 1, wherein the electronic device only communicates with the server system indirectly through the portable wireless device

8. (original) The wireless network system according to claim 1, wherein the server system is adapted to process a transaction.

9. (original) The wireless network system according to claim 1, wherein the portable wireless device includes a second wireless transceiver to communicate wirelessly with the wireless transceiver of the electronic device.

10. (original) The wireless network system according to claim 1, wherein the network is a wide area network (WAN).

11. (original) The wireless network system according to claim 1, wherein communication between the electronic device and the server system is packet-based.

12. (currently amended) A method of wireless communication, comprising:
connecting a server system to a network;
establishing a first wireless connection to the network by a portable wireless device; and
communicating wirelessly indirectly by an electronic device to the server system over the network through the portable wireless device, wherein the electronic

device communicates directly with the portable wireless device via at least one of light transmission and radio frequency (RF) transmission and the portable wireless device communicates wirelessly with the server via the first wireless connection.

13. (currently amended) The method according to claim 12, wherein the first wireless connection is selected from the group consisting of a Transmission Control Protocol/Internet Protocol (TCP/IP) connection, a satellite connection, a Global System for Mobile communications (GSM) connection, a code-division multiple access (CDMA) connection, a time-division multiple access (TDMA) connection, a Cellular Digital Packet Data (CDPD) connection, a General Packet Radio Service (GPRS) connection, and a wideband code-division multiple access (WCDMA) connection.

14. (original) The method according to claim 12, wherein communication between the electronic device and the server system is secured from the portable wireless device.

15. (original) The method according to claim 12, further including processing a transaction by the server system.

16. (currently amended) The method according to claim 12, further including:
transmitting data destined for the server system wirelessly by the
electronic device to the portable wireless device; and

transmitting the data destined for the server system over the network by
the portable wireless device via the first wireless connection to the server system.

17. (currently amended) The method according to claim 12, further including:
transmitting data destined for the electronic device from the server system over
the network to the portable wireless device via the first wireless connection; and

transmitting the data destined for the electronic device wirelessly from the portable wireless device to the electronic device.

18. (original) The method according to claim 12, wherein the electronic device lacks a permanent connection to the network.

Claim 19 (cancelled).

20. (original) The method according to claim 12, wherein the network is a wide area network (WAN).

21. (original) The method according to claim 12, wherein communication between the electronic device and the server system is packet-based.

22. (currently amended) A portable wireless device, comprising:
a first wireless transceiver to communicate wirelessly with an electronic device, wherein the first wireless transceiver is adapted to communicate via at least one of light transmission and radio frequency (RF) transmission; and

a second wireless transceiver having a wireless connection to a network, wherein a server system is connected to the network, and the portable wireless device ~~is adapted to permit the electronic device to communicate~~ receives data from the electronic device and transmits the data ~~[[with]]~~ to the server system over the network ~~through the portable wireless device.~~

23. (original) The portable wireless device according to claim 22, wherein the first wireless transceiver communicates wirelessly with the electronic device via a protocol selected from the group consisting of InfraRed communication, Bluetooth protocol, and IEEE 802.11 protocol.

24. (original) The portable wireless device according to claim 22, wherein the

wireless connection is selected from the group consisting of a Transmission Control Protocol/Internet Protocol (TCP/IP) connection, a satellite connection, a Global System for Mobile communications (GSM) connection, a code-division multiple access (CDMA) connection, a time-division multiple access (TDMA) connection, a Cellular Digital Packet Data (CDPD) connection, a General Packet Radio Service (GPRS) connection, and a wideband code-division multiple access (WCDMA) connection.

25. (currently amended) The portable wireless device according to claim 22, wherein the first wireless transceiver and the second wireless transceiver are located in a same device.

26. (original) The portable wireless device according to claim 22, wherein the server system is adapted to process a transaction.

Claims 27 and 28 (cancelled).

29. (original) The portable wireless device according to claim 22, wherein the electronic device lacks a permanent connection to the network.

30. (original) The portable wireless device according to claim 22, wherein the electronic device only communicates with the server system indirectly through the portable wireless device.

31. (original) The portable wireless device according to claim 22, wherein the network is a wide area network (WAN).

32. (original) The portable wireless device according to claim 22, wherein the portable wireless device is a mobile telephone.

33. (original) The portable wireless device according to claim 22, wherein the portable wireless device is a laptop computer.

34. (original) The portable wireless device according to claim 22, wherein the portable wireless device is a personal digital assistant (PDA).

35. (original) The portable wireless device according to claim 22, wherein the portable device is selected from the group consisting of an embedded computing device in a vehicle, and an embedded computing device within a wearable computer.

36. (original) The portable wireless device according to claim 22, wherein communication between the electronic device and the server system is packet-based.

37. (currently amended) A method of wireless communication by a portable wireless device, comprising:

establishing wireless communication, by the portable wireless device, with an electronic device via at least one of light transmission and radio frequency (RF) transmission;

establishing a separate wireless connection to a network, wherein a server system is connected to the network;

receiving, at the portable wireless device, data destined for the server system wirelessly from the electronic device;

transmitting the data destined for the server system over the network via the wireless connection to the server system;

receiving data destined for the electronic device from the server system over the network via the wireless connection; and

transmitting the data destined for the electronic device wirelessly to the electronic device.

38. (original) The method according to claim 37, wherein communication

between the electronic device and the server system is secured from the portable wireless device.

39. (original) The method according to claim 37, wherein the wireless connection is selected from the group consisting of a Transmission Control Protocol/Internet Protocol (TCP/IP) connection, a satellite connection, a Global System for Mobile communications (GSM) connection, a code-division multiple access (CDMA) connection, a time-division multiple access (TDMA) connection, a Cellular Digital Packet Data (CDPD) connection, a General Packet Radio Service (GPRS) connection, and a wideband code-division multiple access (WCDMA) connection.

40. (original) The method according to claim 37, wherein the server system is adapted to process a transaction.

41. (original) The method according to claim 37, wherein the electronic device only communicates with the server system indirectly through the portable wireless device.

42. (original) The method according to claim 37, wherein the network is a wide area network (WAN).

43. (original) The method according to claim 37, wherein communication between the electronic device and the server system is packet-based.

44. (currently amended) A program code storage device, comprising:
a machine-readable storage medium; and
machine-readable program code, stored on the machine readable storage medium, having instructions, which when executed cause a portable wireless device to establish wireless communication, at the portable wireless device, with an

electronic device via at least one of light transmission and radio frequency (RF) transmission,

establish a separate wireless connection to a network, wherein a server system is connected to the network,

receive, at the portable wireless device, data destined for the server system wirelessly from the electronic device,

transmit the data destined for the server system over the network via the wireless connection to the server system,

receive data destined for the electronic device from the server system over the network via the wireless connection, and

transmit the data destined for the electronic device wirelessly to the electronic device.

45. (original) The program code storage device according to claim 44, wherein communication between the electronic device and the server system is secured from the portable wireless device.

46. (original) The program code storage device according to claim 44, wherein the wireless connection is selected from the group consisting of a Transmission Control Protocol/Internet Protocol (TCP/IP) connection, a satellite connection, a Global System for Mobile communications (GSM) connection, a code-division multiple access (CDMA) connection, a time-division multiple access (TDMA) connection, a Cellular Digital Packet Data (CDPD) connection, a General Packet Radio Service (GPRS) connection, and a wideband code-division multiple access (WCDMA) connection.

47. (original) The program code storage device according to claim 44,

wherein the server system is adapted to process a transaction.

48. (original) The program code storage device according to claim 44, wherein the electronic device only communicates with the server system indirectly through the portable wireless device.

49. (original) The program code storage device according to claim 44, wherein the network is a wide area network (WAN).

50. (original) The program code storage device according to claim 44, wherein communication between the electronic device and the server system is packet-based.

Claims 51 – 62 (cancelled).

63. (currently amended) A method of wireless communication by an electronic device, comprising:

establishing a first wireless communication connection with a portable wireless device via at least one of light transmission and radio frequency (RF) transmission, wherein the portable wireless device has a second wireless connection to a network, and a server system is connected to the network;

transmitting data destined for the server system wirelessly via the first wireless connection to the portable electronic device, wherein the portable wireless device transmits the data destined for the server system over the network via the second wireless connection to the server system; and

receiving data destined for the electronic device ~~from the server system~~, wherein the portable wireless device receives the data destined for the electronic device from the server system over the network via the second wireless connection and transmits

the data destined for the electronic device wirelessly via the first wireless connection to the electronic device.

64. (original) The method according to claim 63, wherein communication between the electronic device and the server system is secured from the portable wireless device.

65. (currently amended) The method according to claim 63, wherein the second wireless connection is selected from the group consisting of a Transmission Control Protocol/Internet Protocol (TCP/IP) connection, a satellite connection, a Global System for Mobile communications (GSM) connection, a code-division multiple access (CDMA) connection, a time-division multiple access (TDMA) connection, a Cellular Digital Packet Data (CDPD) connection, a General Packet Radio Service (GPRS) connection, and a wideband code-division multiple access (WCDMA) connection.

66. (original) The method according to claim 63, wherein the server system is adapted to process a transaction.

67. (original) The method according to claim 63, wherein the electronic device only communicates with the server system indirectly through the portable wireless device.

68. (original) The method according to claim 63, wherein the network is a wide area network (WAN).

69. (original) The method according to claim 63, wherein communication between the electronic device and the server system is packet-based.

70. (currently amended) A program code storage device, comprising:
a machine-readable storage medium; and

machine-readable program code, stored on the machine-readable storage medium, having instructions, which when executed cause ~~a portable~~ an electronic device to

establish a first wireless communication connection with a portable wireless device via at least one of light transmission and radio frequency (RF) transmission, wherein the portable wireless device has a second wireless connection to a network, and a server system is connected to the network,

transmit data₁ destined for the server system₁ wirelessly to the portable electronic device utilizing the first wireless connection, wherein the portable wireless device transmits the data destined for the server system over the network via the second wireless connection to the server system, and

receive data destined for the electronic device via the first wireless connection from the portable wireless device which was originally sent from the server system ;

~~wherein the portable wireless device receives the data destined for the electronic device from the server system over the network via the wireless connection and transmits the data destined for the electronic device wirelessly to the electronic device.~~

71. (original) The program code storage device according to claim 70, wherein communication between the electronic device and the server system is secured from the portable wireless device.

72. (currently amended) The program code storage device according to claim 70, wherein the second wireless connection is selected from the group consisting of a Transmission Control Protocol/Internet Protocol (TCP/IP) connection, a satellite connection, a Global System for Mobile communications (GSM) connection, a code-

division multiple access (CDMA) connection, a time-division multiple access (TDMA) connection, a Cellular Digital Packet Data (CDPD) connection, a General Packet Radio Service (GPRS) connection, and a wideband code-division multiple access (WCDMA) connection.

73. (original) The program code storage device according to claim 70, wherein the server system is adapted to process a transaction.

74. (original) The program code storage device according to claim 70, wherein the electronic device only communicates with the server system indirectly through the portable wireless device.

75. (original) The program code storage device according to claim 70, wherein the network is a wide area network (WAN).

76. (original) The program code storage device according to claim 70, wherein communication between the electronic device and the server system is packet-based.

77. (currently amended) A vending machine, comprising:
a wireless transceiver to communicate wirelessly via at least one of light transmission and radio frequency (RF) transmission with a portable wireless device over a first wireless connection, the portable wireless device having a second wireless connection to a network, wherein a server system is connected to the network, and the wireless transceiver communicates with the portable wireless device over the first wireless connection and the portable wireless device communicates with the server system over the network ~~through the portable wireless device~~; and

a dispenser to dispense an item when an approval is received indirectly from the

server system over the network, the approval being transmitted from the server to through the portable wireless device and the portable wireless device transmitting the approval via the first wireless connection to the wireless transceiver.

78. (currently amended) The vending machine according to claim 77, wherein the wireless transceiver communicates wirelessly with the portable wireless device over the first wireless connection via a protocol selected from the group consisting of InfraRed communication, Bluetooth protocol, and IEEE 802.11 protocol.

79. (currently amended) The vending machine according to claim 77, wherein the second wireless connection is selected from the group consisting of a Transmission Control Protocol/Internet Protocol (TCP/IP) connection, a satellite connection, a Global System for Mobile communications (GSM) connection, a code-division multiple access (CDMA) connection, a time-division multiple access (TDMA) connection, a Cellular Digital Packet Data (CDPD) connection, a General Packet Radio Service (GPRS) connection, and a wideband code-division multiple access (WCDMA) connection.

80. (original) The vending machine according to claim 77, wherein the approval is transmitted from the server system to the vending machine after successful payment verification.

81. (original) The vending machine according to claim 77, wherein communication between the vending machine and the server system is secured from the portable wireless device.

Claims 82 and 83 (cancelled).

84. (currently amended) The vending machine according to claim 77, wherein the vending machine ~~lacks~~ does not have a permanent connection to the network.

85. (original) The vending machine according to claim 77, wherein the vending machine only communicates with the server system indirectly through the portable wireless device.

86. (original) The vending machine according to claim 77, wherein the server system is adapted to process a transaction.

87. (original) The vending machine according to claim 77, wherein the wireless transceiver transmits telemetry data destined to the server system along with transaction data destined to the server system transmitted from the wireless transceiver.

88. (original) The vending machine according to claim 77, wherein the network is a wide area network (WAN).

89. (original) The vending machine according to claim 77, wherein communication between the wireless transceiver and the server system is packet-based.

Claims 90 - 114 (cancelled).

115. (currently amended) A method of wireless communication by a stationary node, comprising:

collecting data, at the stationary node, to be transmitted to a server system connected to a network;

establishing, by the stationary node, wireless communication with a portable wireless device via at least one of light transmission and radio frequency (RF) transmission, wherein the portable wireless device has a wireless connection to the network; and

transmitting the data wirelessly to the portable wireless device, wherein the

portable wireless device transmits the data to the server system over the network via the wireless connection to the server system.

116. (original) The method according to claim 115, wherein communication between the stationary node and the server system is secured from the portable wireless device.

117. (original) The method according to claim 115, wherein the wireless connection is selected from the group consisting of a Transmission Control Protocol/Internet Protocol (TCP/IP) connection, a satellite connection, a Global System for Mobile communications (GSM) connection, a code-division multiple access (CDMA) connection, a time-division multiple access (TDMA) connection, and a Cellular Digital Packet Data (CDPD) connection, a General Packet Radio Service (GPRS) connection, and a wideband code-division multiple access (WCDMA) connection.

118. (original) The method according to claim 115, wherein the stationary node only communicates with the server system indirectly through the portable wireless device.

119. (original) The method according to claim 115, wherein the network is a wide area network (WAN).

120. (original) The method according to claim 115, wherein communication between the stationary node and the server system is packet-based.

121. (currently amended) A method of non-real-time wireless communication by a stationary node, comprising:

collecting data, at the stationary node, to be transmitted to a server system connected to a network;

establishing, at the stationary node, wireless communication via a personal area network (PAN) with a portable wireless device via at least one of light transmission and radio frequency (RF) transmission; and

transmitting the data wirelessly to the portable wireless device via the personal area network (PAN), wherein the portable wireless device transmits the data over the network to the server system at a later time.

122. (original) The method according to claim 121, wherein the network is a second personal area network (PAN) and the portable wireless device transmits the data directly to the server system over the second personal area network.

123. (original) The method according to claim 121, wherein the network is a wide area network (WAN), and the portable wireless device transmits the data to a second portable wireless device having a wireless connection to the wide area network, and the second portable wireless device transmits the data over the wide area network via the wireless connection to the server system.

124. (original) The method according to claim 121, wherein communication between the stationary node and the server system is secured from the portable wireless device.

125. (original) The method according to claim 123, wherein the wireless connection is selected from the group consisting of a Transmission Control Protocol/Internet Protocol (TCP/IP) connection, a satellite connection, a Global System for Mobile communications (GSM) connection, a code-division multiple access (CDMA) connection, a time-division multiple access (TDMA) connection, a Cellular Digital Packet Data (CDPD) connection, a General Packet Radio Service (GPRS) connection,

and a wideband code-division multiple access (WCDMA) connection.

126. (original) The method according to claim 121, wherein communication via the personal area network (PAN) is via a protocol selected from the group consisting of InfraRed communication, Bluetooth protocol, and IEEE 802.11 protocol.

127. (original) A method of non-real-time wireless communication to a designated stationary node, comprising:

selecting a portable wireless device that travels within a personal area network (PAN) of the designated stationary node; and

transmitting wirelessly, from a server system connected to a network, data for the designated stationary node over the network to the portable wireless device, wherein the portable wireless device travels within the personal area network (PAN) of the designated stationary node and transmits wirelessly the data to the designated stationary node over the personal area network via at least one of light transmission and radio frequency (RF) transmission.

128. (original) The method according to claim 127, wherein the network is a second personal area network (PAN) and the portable wireless device receives the data directly from the server system over the second personal area network.

129. (original) The method according to claim 127, wherein the network is a wide area network (WAN).

130. (original) The method according to claim 127, wherein communication between the designated stationary node and the server system is secured from the portable wireless device.

131. (original) The method according to claim 127, wherein communication

over the wide area network (WAN) is via a connection selected from the group consisting of a Transmission Control Protocol/Internet Protocol (TCP/IP) connection, a satellite connection, a Global System for Mobile communications (GSM) connection, a code-division multiple access (CDMA) connection, a time-division multiple access (TDMA) connection, a Cellular Digital Packet Data (CDPD) connection, a General Packet Radio Service (GPRS) connection, and a wideband code-division multiple access (WCDMA) connection.

132. (original) The method according to claim 127, wherein communication via the personal area network (PAN) is via a protocol selected from the group consisting of InfraRed communication, Bluetooth protocol, and IEEE 802.11 protocol.